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TEST REPORT

Product ECG recorder

Trade mark N/A

ER2-SC Model/Type reference

Serial Number N/A

Report Number : EED32N80735701

FCC ID 2ADXK-3624 Date of Issue Mar. 09, 2022

Test Standards 47 CFR Part 15 Subpart C

Test result **PASS**

Prepared for:

Shenzhen Viatom Technology Co., Ltd. 4E, 3#, Tingwei Industrial Park, Honglang North 2nd Road, Baoan District, Shenzhen, China

Prepared by:

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Mar. 09, 2022

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2 Version

Version No.	Date	Description Original			
00	Mar. 09, 2022				
	0	10			
((50)	(92)	(57)	(0)	











































































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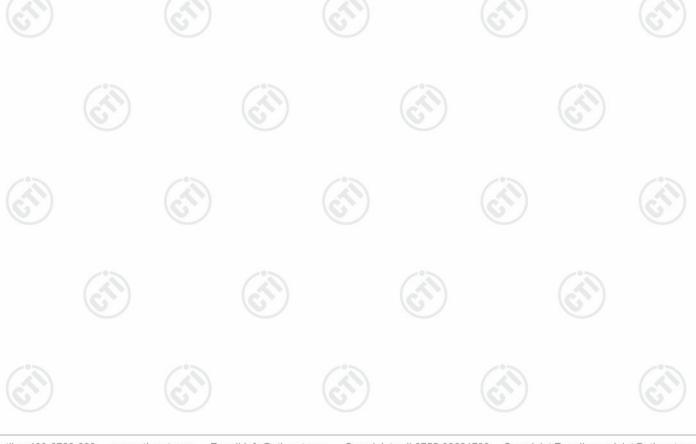
3 Test Summary

Test Item	Test Requirement	Result	
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS	
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	N/A	
DTS Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS	
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	PASS	
Maximum Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	PASS	
Band Edge Measurements	47 CFR Part 15 Subpart C Section 15.247(d)	PASS	
Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	PASS	
Radiated Spurious Emission & Restricted bands	47 CFR Part 15 Subpart C Section 15.205/15.209	PASS	

N/A: When the EUT charging, BLE will not work , So Not Applicable.

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.





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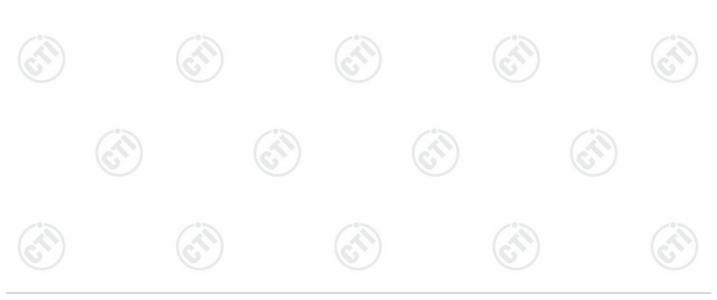
4 General Information

4.1 Client Information

Applicant: Shenzhen Viatom Technology Co., Ltd.					
Address of Applicant:	4E, 3#, Tingwei Industrial Park, Honglang North 2nd Road, Baoan District, Shenzhen, China				
Manufacturer:	Shenzhen Viatom Technology Co., Ltd.				
Address of Manufacturer:	501, Building B, Ganghongji High-tech Intelligent Industrial Park, No.1008 Songbai Road, Xili Street, Nanshan District, 518055 Shenzhen, China				
Factory:	Shenzhen Viatom Technology Co., Ltd.				
Address of Factory:	501, Building B, Ganghongji High-tech Intelligent Industrial Park, No.1008 Songbai Road, Xili Street, Nanshan District, 518055 Shenzhen, China				

4.2 General Description of EUT

Product Name:	ECG recorder			
Mode No.:	ER2-SC			
Trade mark:	N/A			6
Bluetooth Version:	V5.0			
Operation Frequency:	2402MHz~2480MHz			
Modulation Type:	GFSK	TO.		
Transfer Rate:	⊠1Mbps ⊠2Mbps		(0,)	
Number of Channel:	40			
Product Type:	☐ Mobile ☐ Portable ☐	Fix Location		
Antenna Type:	Chip antenna			(3)
Antenna Gain:	4.97dBi	(6,2)		(6)
Power Supply:	Lithium battery: DC 3.7V, Charge	e by DC 5.0V		
Test Voltage:	DC 3.7V			
Sample Received Date:	Sep. 01, 2021		/°>	
Sample tested Date:	Sep. 01, 2021 to Nov. 24, 2021	(1)	(37)	



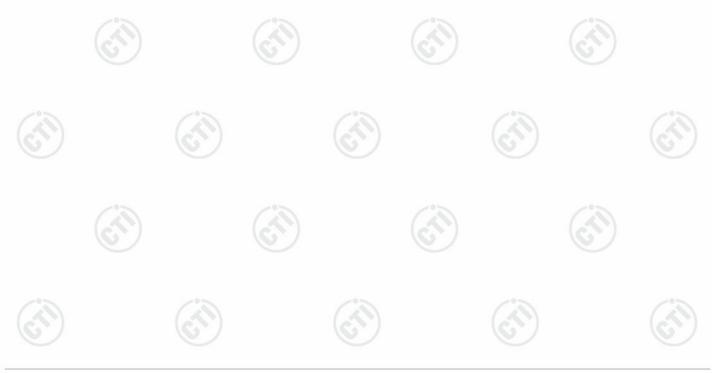


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Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz





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4.3 Test Configuration

EUT Test Softwar	e Settings:							
Software: Direct Te			ect Test Mode Tool (manufacturer declare)					
EUT Power Grade:		ass2 (Powe lected)	s2 (Power level is built-in set parameters and cannot be changed and cted)					
Use test software to transmitting of the		frequency, tl	ne middle frequ	ency and the highest	requency keep			
Test Mode Modu		on	Rate	Channel	Frequency(MHz)			
Mode a	GFSK	.47	1Mbps	CH0	2402			
Mode b	GFSK		1Mbps	CH19	2440			
Mode c GFS			1Mbps	CH39	2480			
Mode d	GFSK		2Mbps	CH0	2402			
Mode e	GFSK		2Mbps	CH19	2440			
Mode f	GFSK		2Mbps	CH39	2480			

4.4 Test Environment

	Operating Environment	:					
	Radiated Spurious Emissions:						
	Temperature:	22~25.0 °C					
	Humidity:	50~55 % RH	>23				520
10	Atmospheric Pressure:	1010mbar			(3)		
	RF Conducted:						
	Temperature:	22~25.0 °C					
	Humidity:	50~55 % RH					
	Atmospheric Pressure:	1010mbar		(3)		(3)	
	Humidity:	50~55 % RH					

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

Associated equipment name	Manufacture	model	S/N serial number	Supplied by	Certification
AE1 Notebook	DELL	DELL 3490	D245DX2	1	FCC ID





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4.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

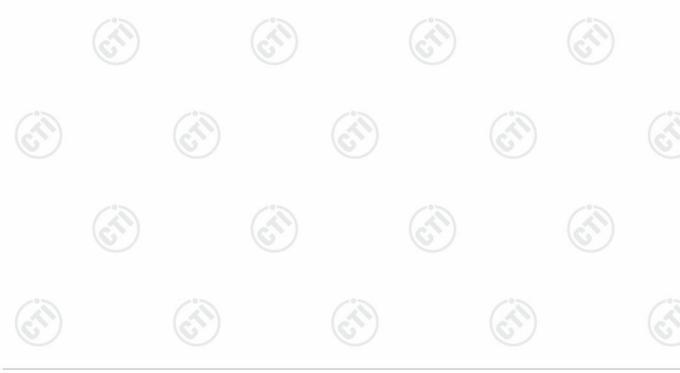
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

4.7 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty		
1	Radio Frequency	7.9 x 10 ⁻⁸		
2	DE nower conducted	0.46dB (30MHz-1GHz)		
2	RF power, conducted	0.55dB (1GHz-18GHz)		
		3.3dB (9kHz-30MHz)		
	Dedicted Country emission test	4.3dB (30MHz-1GHz)		
3	Radiated Spurious emission test	4.5dB (1GHz-18GHz)		
		3.4dB (18GHz-40GHz)		
**	Conduction emission	3.5dB (9kHz to 150kHz)		
4	Conduction emission	3.1dB (150kHz to 30MHz)		
5	Temperature test	0.64°C		
6	Humidity test	3.8%		
7	DC power voltages	0.026%		





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5 Equipment List

		RF test s	ystem		
Equipment	Manufacturer Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	
Spectrum Analyzer	R&S	FSV40	101200	08-26-2021	08-25-2022
Signal Generator	Keysight	N5182B	MY53051549	12-28-2020	12-27-2021
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-23-2021	06-22-2022
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002	(2 ⁴ 1)	(<u> </u>
High-pass filter MICRO-TRONICS		SPA-F-63029-4			
DC Power	Keysight	E3642A	MY56376072	12-28-2020	12-27-2021
PC-1	Lenovo	R4960d			(A
Power unit	R&S	OSP120	101374	12-28-2020	12-27-2021
RF control unit	JS Tonscend	JS0806-2	158060006	12-28-2020	12-27-2021
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3		(

	3M Semi/full-anechoic Chamber											
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)							
3M Chamber & Accessory Equipment	TDK	SAC-3		05-24-2019	05-23-2022							
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9136-401	10-17-2021	10-16-2022							
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-15-2021	04-14-2024							
Receiver	R&S	ESCI7	100009	04-15-2021	04-14-2022							
Multi device Controller	maturo	NCD/070/10711 112			<u> </u>							
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	06-24-2021	06-23-2022							
Cable line	Fulai(7M)	SF106	5219/6A		(3							
Cable line	Fulai(6M)	SF106	5220/6A	(6)-)	(67							
Cable line	Fulai(3M)	SF106	5216/6A									
Cable line	Fulai(3M)	SF106	5217/6A									













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		3M full-anecho	ic Chamber			
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	
RSE Automatic test software	JS Tonscend	JS36-RSE	10166			
Receiver	Keysight	N9038A	MY57290136	03-04-2021	03-03-2022	
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-04-2021	03-03-2022	
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-04-2021	03-03-2022	
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024	
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024	
Horn Antenna	ETS- LINDGREN	3117	00057407	07-04-2021	07-03-2024	
Preamplifier	EMCI	EMC184055SE	980597	05-20-2021	05-19-2022	
Preamplifier	EMCI	EMC001330	980563	04-15-2021	04-14-2022 12-30-2021	
Preamplifier	JS Tonscend	980380	EMC051845 SE	12-31-2020		
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-16-2021	04-15-2022	
Fully Anechoic Chamber	TDK	FAC-3	(=	01-09-2021	01-08-2024	
Cable line	Times	SFT205-NMSM- 2.50M	394812-0001	(<u> </u>	
Cable line	Times	SFT205-NMSM- 2.50M	394812-0002			
Cable line	Times	SFT205-NMSM- 2.50M	394812-0003			
Cable line	Times	SFT205-NMSM- 2.50M	393495-0001	(C1)	(c	
Cable line	Times	EMC104-NMNM- 1000	SN160710			
Cable line	Times	SFT205-NMSM- 3.00M	394813-0001			
Cable line	Times	SFT205-NMNM- 1.50M	381964-0001	(<u> </u>	
Cable line	Times	SFT205-NMSM- 7.00M	394815-0001		<u> </u>	
Cable line	Times	HF160-KMKM- 3.00M	393493-0001			















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6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

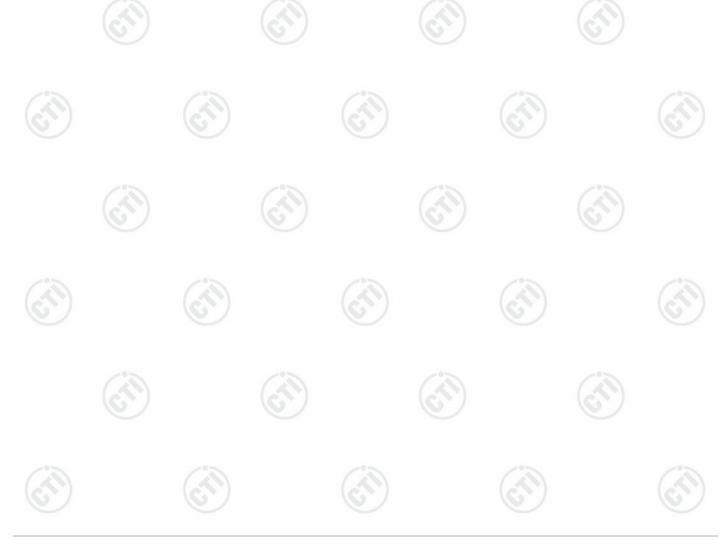
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna: Please see Internal photos

The antenna is Chip antenna. The best case gain of the antenna is 4.97dBi.







6.2 Maximum Conducted Output Power

10.0	10.0	
Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)	
Test Method:	ANSI C63.10 2013	
Test Setup:		
	Control Compuler Power Poor Attenuator Instrument Table RF test System System Instrument	
	Remark: Offset=Cable loss+ attenuation factor.	
Test Procedure:	 a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x RBW 	(C.)
	 d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level. 	
Limit:	30dBm	100
Test Mode:	Refer to clause 5.3	(17)
Test Results:	Refer to Appendix A	





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6.3 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)								
Test Method:	ANSI C63.10 2013								
Test Setup:									
	Control Computer Supply Power Supply Table RF test System System Instrument								
	Remark: Offset=Cable loss+ attenuation factor.								
Test Procedure:	 a) Set RBW = 100 kHz. b) Set the VBW ≥[3 × RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission. 								
Limit:	≥ 500 kHz								
Test Mode:	Refer to clause 5.3								
Test Results:	Refer to Appendix A								

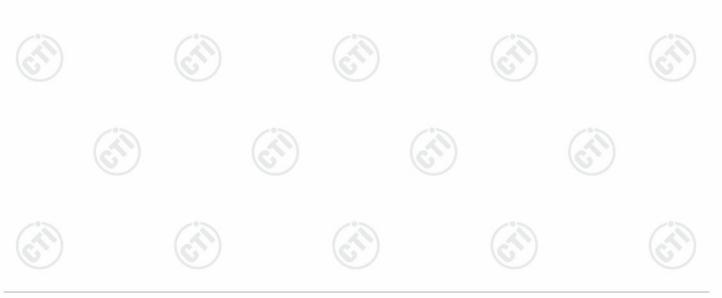






6.4 Maximum Power Spectral Density

	(0.7 /	
	Test Requirement:	47 CFR Part 15C Section 15.247 (e)
	Test Method:	ANSI C63.10 2013
	Test Setup:	
		Control Computer Computer Computer Computer Computer Computer Control Computer Control Computer Power Power Supply Power Supply Table RF test System System Instrument Instrument
4		Remark: Offset=Cable loss+ attenuation factor.
	Test Procedure:	a) Set analyzer center frequency to DTS channel center frequency. b) Set the span to 1.5 times the DTS bandwidth. c) Set the RBW to 3 kHz < RBW < 100 kHz. d) Set the VBW > [3 × RBW]. e) Detector = peak. f) Sweep time = auto couple. g) Trace mode = max hold. h) Allow trace to fully stabilize. i) Use the peak marker function to determine the maximum amplitude level within the RBW. j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.
	Limit:	≤8.00dBm/3kHz
	Test Mode:	Refer to clause 5.3
	Test Results:	Refer to Appendix A







6.5 Band Edge measurements and Conducted Spurious Emission

	Test Requirement:	47 CFR Part 15C Section 15.247 (d)
	Test Method:	ANSI C63.10 2013
2002	Test Setup:	Control Computer Power Supply Power Table RF test System System Instrument Instrument
		Remark: Offset=Cable loss+ attenuation factor.
	Test Procedure:	a) Set RBW =100KHz. b) Set VBW = 300KHz. c) Sweep time = auto couple. d) Detector = peak. e) Trace mode = max hold. f) Allow trace to fully stabilize. g) Use peak marker function to determine the peak amplitude level.
	Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
	Test Mode:	Refer to clause 5.3
	Test Results:	Refer to Appendix A

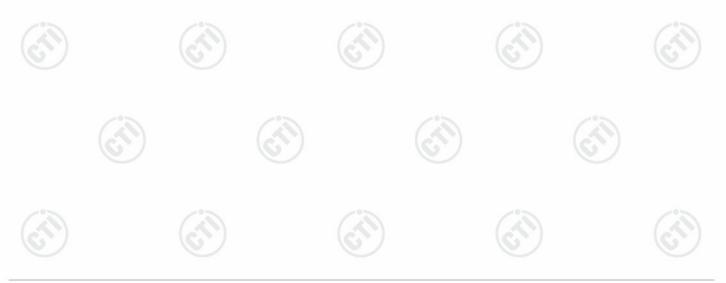






6.6 Radiated Spurious Emission & Restricted bands

1600	(G) /		(6)		10.	<i>)</i>			
Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205					
Test Method:	ANSI C63.10 2013								
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark				
	0.009MHz-0.090MH	z	Peak	10kHz	30kHz	Peak			
	0.009MHz-0.090MH	lz	Average	10kHz	30kHz	Average			
	0.090MHz-0.110MH	lz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	0.110MHz-0.490MH	lz	Peak	10kHz	30kHz	Peak			
	0.110MHz-0.490MH	lz	Average	10kHz	30kHz	Average			
	0.490MHz -30MHz		Quasi-peak	10kHz	30kHz	Quasi-peak			
	30MHz-1GHz		Quasi-peak	100 kH	z 300kHz	Quasi-peak			
	Above 1GHz		Peak	1MHz	3MHz	Peak			
			Peak	1MHz	10kHz	Average			
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measuremen distance (m			
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-/*>	300			
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	(A)	30			
	1.705MHz-30MHz	30		-		30			
	30MHz-88MHz		100	40.0	Quasi-peak	3			
	88MHz-216MHz		150	43.5	Quasi-peak	3			
	216MHz-960MHz	6	200	46.0	Quasi-peak	3			
	960MHz-1GHz		500	54.0	Quasi-peak	3			
	Above 1GHz		500	54.0	Average	3			
	Note: 15.35(b), frequency emissions is limit applicable to the epeak emission level race	IB above the oment under t	maximum est. This p	permitted ave	erage emission				





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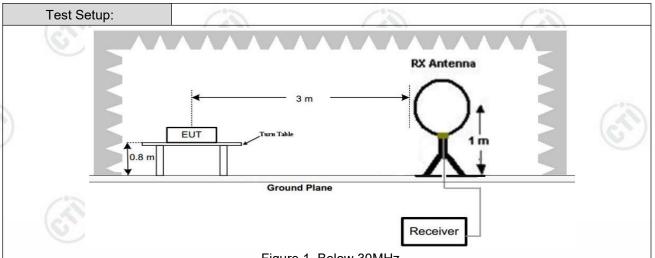
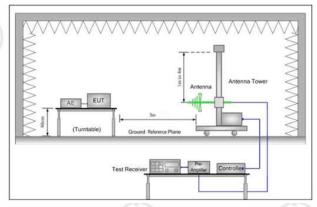


Figure 1. Below 30MHz



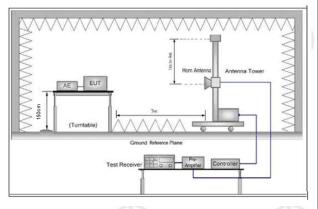


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

Note: For the radiated emission test above 1GHz:

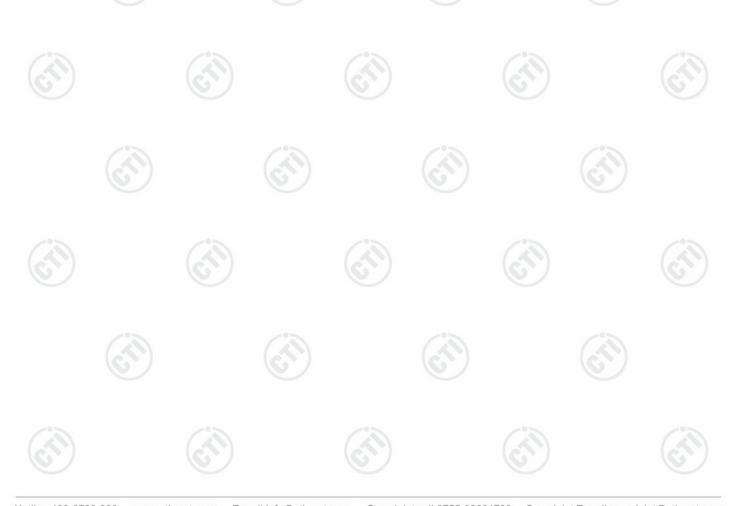
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both





Test Results:	Pass
Test Mode:	Refer to clause 5.3
	i. Repeat above procedures until all frequencies measured was complete.
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)
	f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	horizontal and vertical polarizations of the antenna are set to make the measurement.

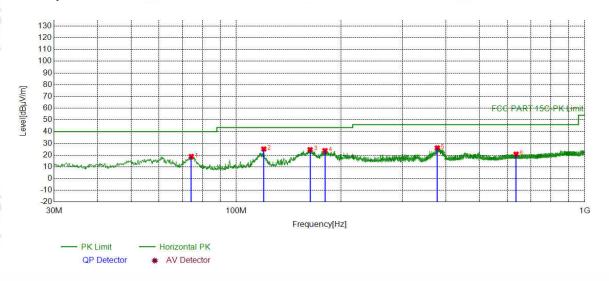




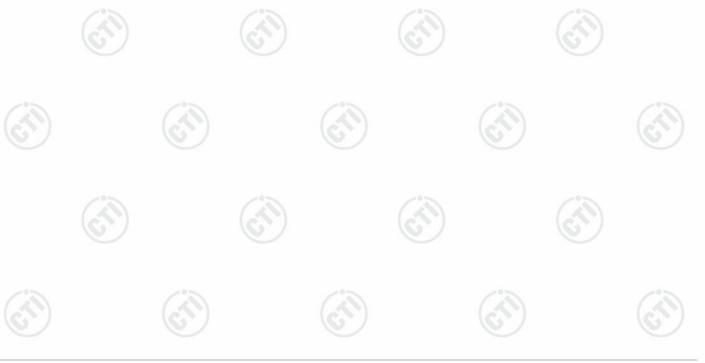


Radiated Spurious Emission below 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case mode d was recorded in the report.

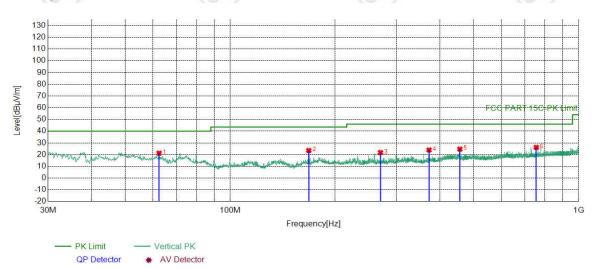


NO	Freq.	Factor [dB]	Reading	Level	Limit	Margin [dB]	Result	Polarity	Remark
1	74.3334	-21.56	40.41	18.85	40.00	21.15	PASS	Horizontal	Peak
2	120.0250	-20.08	45.33	25.25	43.50	18.25	PASS	Horizontal	Peak
3	163.0003	-20.94	45.66	24.72	43.50	18.78	PASS	Horizontal	Peak
4	179.7830	-19.83	43.72	23.89	43.50	19.61	PASS	Horizontal	Peak
5	377.6828	-13.41	39.62	26.21	46.00	19.79	PASS	Horizontal	Peak
6	635.8256	-8.37	29.23	20.86	46.00	25.14	PASS	Horizontal	Peak

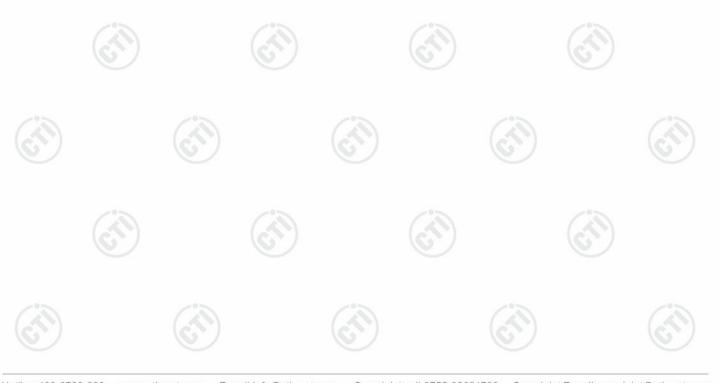








NO	Freq.	Factor [dB]	Reading	Level	Limit	Margin [dB]	Result	Polarity	Remark
	[IVITZ]	լսեյ	[dBµV]	[ubµv/III]	[ασμν/ιιι]				
1	62.4983	-19.07	40.33	21.26	40.00	18.74	PASS	Vertical	Peak
2	168.0448	-20.59	44.09	23.50	43.50	20.00	PASS	Vertical	Peak
3	270.0020	-16.15	37.89	21.74	46.00	24.26	PASS	Vertical	Peak
4	372.0562	-13.51	37.49	23.98	46.00	22.02	PASS	Vertical	Peak
5	456.0666	-11.61	36.32	24.71	46.00	21.29	PASS	Vertical	Peak
6	756.0206	-6.95	33.12	26.17	46.00	19.83	PASS	Vertical	Peak







Radiated Spurious Emission above 1GHz:

Mode	:		BLE GFSK Tra	BLE GFSK Transmitting(1Mbps)				2402 MHz	
NO	Freq. [MHz]	Factor	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1225.6226	0.87	43.67	44.54	74.00	29.46	Pass	Н	PK
2	1880.6881	3.89	42.07	45.96	74.00	28.04	Pass	Н	PK
3	4804.1203	-16.23	56.48	40.25	74.00	33.75	Pass	Н	PK
4	7205.2804	-11.83	68.65	56.82	74.00	17.18	Pass	Н	PK
5	7206.2804	-11.83	58.88	47.05	54.00	6.95	Pass	Н	AV
6	10717.5145	-6.43	52.57	46.14	74.00	27.86	Pass	Н	PK
7	14368.7579	0.70	49.53	50.23	74.00	23.77	Pass	Н	PK
8	1308.4308	1.09	43.41	44.50	74.00	29.50	Pass	V	PK
9	1826.2826	3.48	42.67	46.15	74.00	27.85	Pass	V	PK
10	4646.1097	-16.64	57.84	41.20	74.00	32.80	Pass	V	PK
11	7205.2804	-11.83	71.32	59.49	74.00	14.51	Pass	V	PK
12	7207.2805	-11.83	59.97	48.14	54.00	5.86	Pass	V	AV
13	10777.5185	-6.28	52.32	46.04	74.00	27.96	Pass	V	PK
14	14398.7599	1.20	48.79	49.99	74.00	24.01	Pass	V	PK

Mode:				BLE GFSK Tr	BLE GFSK Transmitting(1Mbps)			Channel:		2440 MHz	
10.70	NO	Freq. [MHz]	Factor	r Reading [dBμV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
-	1	1184.4184	0.81	43.74	44.55	74.00	29.45	Pass	Н	PK	
	2	2079.5080	4.81	41.95	46.76	74.00	27.24	Pass	Н	PK	
	3	4843.1229	-16.22	2 55.85	39.63	74.00	34.37	Pass	Н	PK	
	4	7319.2880	-11.66	67.61	55.95	74.00	18.05	Pass	Н	PK	
	5	7320.2880	-11.65	56.45	44.80	54.00	9.20	Pass	Н	AV	
	6	10258.4839	-6.74	52.72	45.98	74.00	28.02	Pass	Н	PK	
	7	14383.7589	0.95	49.60	50.55	74.00	23.45	Pass	Н	PK	
	8	1328.0328	1.15	43.34	44.49	74.00	29.51	Pass	V	PK	
3	9	1740.2740	3.08	42.98	46.06	74.00	27.94	Pass	V	PK	
	10	5028.1352	-15.78	56.96	41.18	74.00	32.82	Pass	V	PK	
	11	7320.2880	-11.65	71.04	59.39	74.00	14.61	Pass	V	PK	
	12	7321.2881	-11.65	58.21	46.56	54.00	7.44	Pass	V	AV	
	13	10293.4862	-6.50	52.57	46.07	74.00	27.93	Pass	V	PK	
	14	14410.7607	1.07	49.99	51.06	74.00	22.94	Pass	V	PK	













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_	705			202				- 1	200		
	Mode	:		BLE GFSK Tra	nsmitting(1Mb	ps)	Channel:		2480 MHz	Z	
	NO	Freq. [MHz]	Factor	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
	1	1392.2392	1.36	43.35	44.71	74.00	29.29	Pass	Н	PK	
3	2	1812.0812	3.37	42.03	45.40	74.00	28.60	Pass	Н	PK	
	3	4855.1237	-16.21	55.40	39.19	74.00	34.81	Pass	Н	PK	
	4	7439.2960	-11.34	67.75	56.41	74.00	17.59	Pass	Н	PK	
	5	7441.2961	-11.34	56.61	45.27	54.00	8.73	Pass	Н	AV	
	6	11200.5467	-6.43	53.63	47.20	74.00	26.80	Pass	Н	PK	
ſ	7	14329.7553	0.05	49.91	49.96	74.00	24.04	Pass	Н	PK	
Ī	8	1422.2422	1.41	43.17	44.58	74.00	29.42	Pass	V	PK	
Ī	9	1862.6863	3.75	41.39	45.14	74.00	28.86	Pass	V	PK	
ſ	10	4855.1237	-16.21	55.56	39.35	74.00	34.65	Pass	V	PK	
3	11	7440.2960	-11.34	70.29	58.95	74.00	15.05	Pass	V	PK	
6	12	7441.2961	-11.34	60.05	48.71	54.00	5.29	Pass	V	AV	
-	13	10993.5329	-6.17	52.25	46.08	74.00	27.92	Pass	V	PK	
	14	14321.7548	-0.08	50.70	50.62	74.00	23.38	Pass	V	PK	

ı	Mode:			BLE GFSK Tra	nsmitting(2Mb	ps)	Channel:		2402 MHz	2
	NO	Freq. [MHz]	Factor	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1298.0298	1.05	43.31	44.36	74.00	29.64	Pass	Н	PK
3	2	1866.8867	3.78	41.76	45.54	74.00	28.46	Pass	Н	PK
6	3	4902.1268	-16.19	55.93	39.74	74.00	34.26	Pass	Н	PK
e e e e	4	7207.2805	-11.83	67.46	55.63	74.00	18.37	Pass	Н	PK
	5	7205.2804	-11.83	57.08	45.25	54.00	8.75	Pass	Н	AV
	6	10758.5172	-6.33	52.72	46.39	74.00	27.61	Pass	Н	PK
	7	15930.8621	-0.26	51.64	51.38	74.00	22.62	Pass	Н	PK
	8	1312.6313	1.10	43.08	44.18	74.00	29.82	Pass	V	PK
	9	1733.4733	3.05	43.07	46.12	74.00	27.88	Pass	V	PK
Ī	10	4645.1097	-16.65	56.29	39.64	74.00	34.36	Pass	V	PK
	11	7207.2805	-11.83	72.87	61.04	74.00	12.96	Pass	V	PK
9	12	7208.2806	-11.83	62.01	50.18	54.00	3.82	Pass	V	AV
9	13	9665.4444	-7.58	52.76	45.18	74.00	28.82	Pass	V	PK
	14	14379.7587	0.88	49.86	50.74	74.00	23.26	Pass	V	PK













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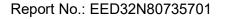
			DI E OFOICE :III: (ONIII)						
Mode	:		BLE GFSK Trai	nsmitting(2Mb	ps)	Channel:		2440 MHz	2
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1297.4297	1.05	43.24	44.29	74.00	29.71	Pass	Н	PK
2	1795.0795	3.26	42.46	45.72	74.00	28.28	Pass	Н	PK
3	5013.1342	-15.80	55.84	40.04	74.00	33.96	Pass	Н	PK
4	7321.2881	-11.65	67.04	55.39	74.00	18.61	Pass	Н	PK
5	7320.2880	-11.65	54.89	43.24	54.00	10.76	Pass	Н	AV
6	10729.5153	-6.40	52.85	46.45	74.00	27.55	Pass	Н	PK
7	14409.7607	1.08	49.14	50.22	74.00	23.78	Pass	Н	PK
8	1295.2295	1.05	43.53	44.58	74.00	29.42	Pass	V	PK
9	1924.8925	4.16	42.05	46.21	74.00	27.79	Pass	V	PK
10	4613.1075	-16.68	56.64	39.96	74.00	34.04	Pass	V	PK
11	7321.2881	-11.65	71.45	59.80	74.00	14.20	Pass	V	PK
12	7322.2882	-11.65	59.45	47.80	54.00	6.20	Pass	V	AV
13	9144.4096	-8.33	53.25	44.92	74.00	29.08	Pass	V	PK
14	12381.6254	-4.88	52.92	48.04	74.00	25.96	Pass	V	PK

Mode	:		BLE GFSK Trai	nsmitting(2Mb	ps)	Channel:		2480 MHz	2
NO	Freq. [MHz]	Factor	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1250.8251	0.93	43.00	43.93	74.00	30.07	Pass	Н	PK
2	1873.4873	3.83	41.60	45.43	74.00	28.57	Pass	Н	PK
3	4564.1043	-16.79	55.87	39.08	74.00	34.92	Pass	Н	PK
4	7438.2959	-11.35	67.53	56.18	74.00	17.82	Pass	Н	PK
5	7439.2960	-11.34	57.20	45.86	54.00	8.14	Pass	Н	AV
6	10853.5236	-6.30	52.60	46.30	74.00	27.70	Pass	Н	PK
7	14386.7591	1.00	49.96	50.96	74.00	23.04	Pass	Н	PK
8	1308.6309	1.09	43.43	44.52	74.00	29.48	Pass	V	PK
9	1750.0750	3.11	41.92	45.03	74.00	28.97	Pass	V	PK
10	4919.1279	-16.13	55.62	39.49	74.00	34.51	Pass	٧	PK
11	7441.2961	-11.34	70.69	59.35	74.00	14.65	Pass	V	PK
12	7442.2962	-11.33	59.38	48.05	54.00	5.95	Pass	V	AV
13	10419.4946	-6.32	52.76	46.44	74.00	27.56	Pass	V	PK
14	13711.7141	-1.75	51.53	49.78	74.00	24.22	Pass	V	PK

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level =Receiver Reading + Factor
 - Factor=Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

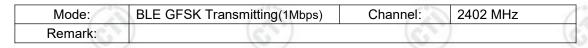


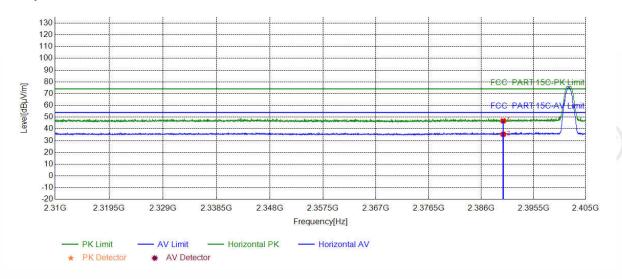




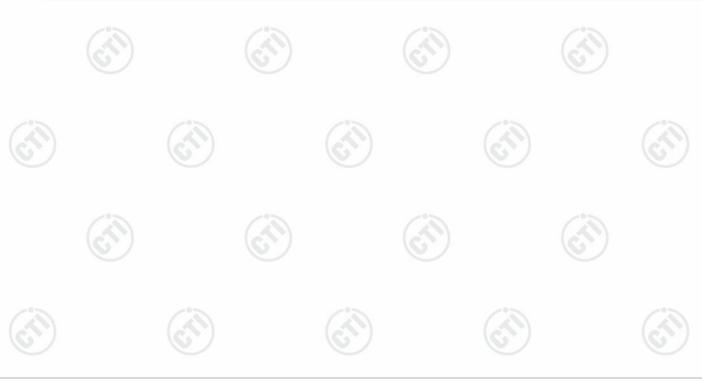
Restricted bands:

Test plot as follows:





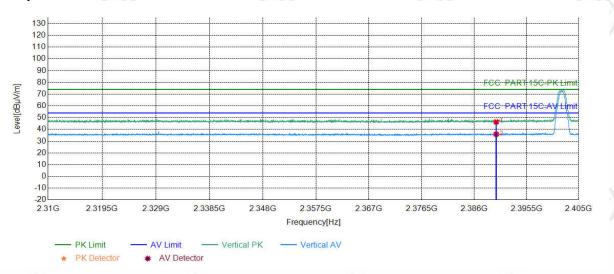
100	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390.0000	5.77	41.07	46.84	74.00	27.16	PASS	Horizontal	PK
	2	2390.0000	5.77	29.64	35.41	54.00	18.59	PASS	Horizontal	AV







A. A. T. A. J.	1.10 4.71-7	ACT A CONTRACT OF THE PARTY OF	A B. A. C. A.
Mode:	BLE GFSK Transmitting(1Mbps)	Channel:	2402 MHz
Remark:			



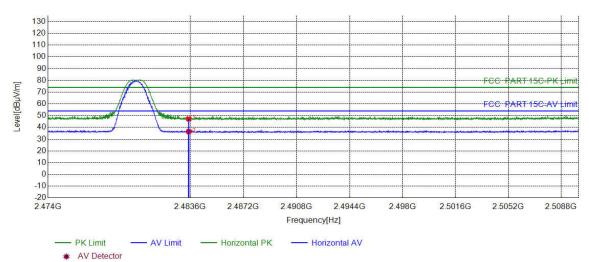
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.58	46.35	74.00	27.65	PASS	Vertical	PK
2	2390.0000	5.77	30.11	35.88	54.00	18.12	PASS	Vertical	AV







	16.4	4.7.1	18.4
Mode:	BLE GFSK Transmitting(1Mbps)	Channel:	2480 MHz
Remark:			



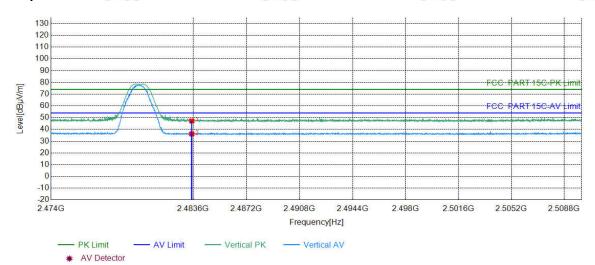
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	40.71	47.28	74.00	26.72	PASS	Horizontal	PK
2	2483.5000	6.57	29.91	36.48	54.00	17.52	PASS	Horizontal	AV







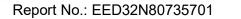
	16.4	4.7.1	18.4
Mode:	BLE GFSK Transmitting(1Mbps)	Channel:	2480 MHz
Remark:			



	Freq.	Factor	Reading	Level	Limit	Margin			
NO	·						Result	Polarity	Remark
	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]			
1	2483.5000	6.57	40.64	47.21	74.00	26.79	PASS	Vertical	PK
2	2483.5000	6.57	29.59	36.16	54.00	17.84	PASS	Vertical	AV

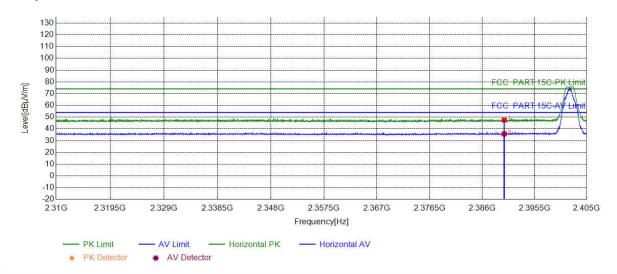




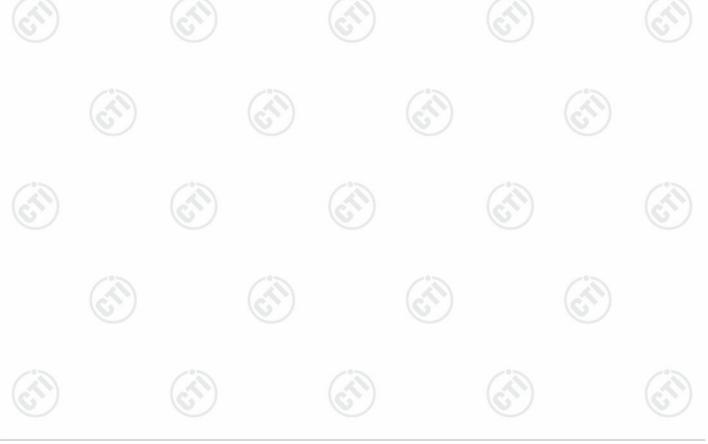




Mode:	BLE GFSK Transmitting(2Mbps)	Channel:	2402 MHz
Remark:		5)	(0)



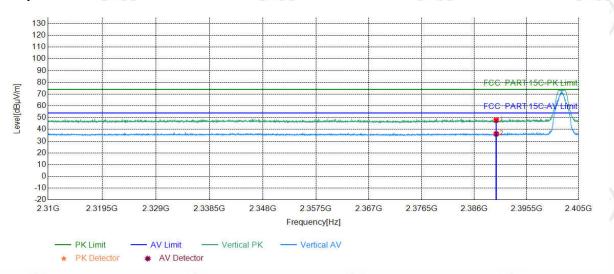
	NO	Freq. [MHz]	Factor [dB]	Reading	Level	Limit	Margin [dB]	Result	Polarity	Remark
Ī	1	2390.0000	5.77	41.78	47.55	74.00	26.45	PASS	Horizontal	PK
	2	2390.0000	5.77	29.98	35.75	54.00	18.25	PASS	Horizontal	AV



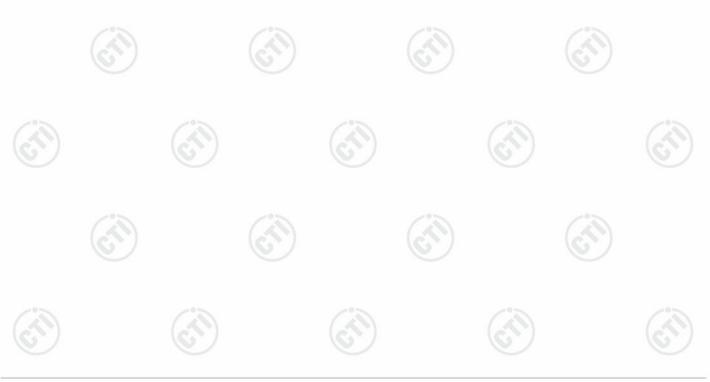




A. A. T. A. J.	1.00	ACT A CONTRACT OF THE PARTY OF	A B. A. C. A.
Mode:	BLE GFSK Transmitting(2Mbps)	Channel:	2402 MHz
Remark:			



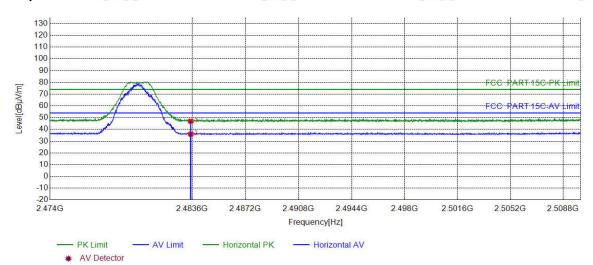
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
1	110	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	lolanty	Remark
Ī	1	2390.0000	5.77	42.01	47.78	74.00	26.22	PASS	Vertical	PK
	2	2390.0000	5.77	30.37	36.14	54.00	17.86	PASS	Vertical	AV







A 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.4		18.4
Mode:	BLE GFSK Transmitting(2Mbps)	Channel:	2480 MHz
Remark:			



NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	40.44	47.01	74.00	26.99	PASS	Horizontal	PK
2	2483.5000	6.57	29.40	35.97	54.00	18.03	PASS	Horizontal	AV

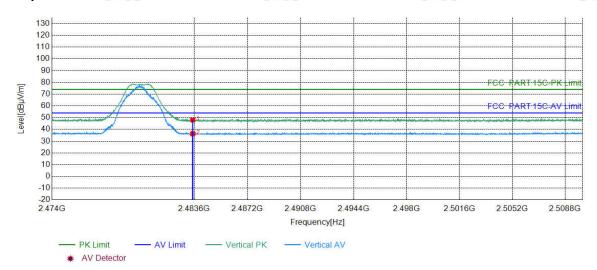




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Mode:	BLE GFSK Transmitting(2Mbps)	Channel:	2480 MHz
Remark:			

Test Graph



NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	41.54	48.11	74.00	25.89	PASS	Vertical	PK
2	2483.5000	6.57	29.79	36.36	54.00	17.64	PASS	Vertical	AV

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Factor

Factor=Antenna Factor + Cable Factor - Preamplifier Factor











Appendix A







Refer to Appendix: Bluetooth LE of EED32N80735701.



















































































